OOK

eadth 5	Depth 6	Contents 7	Reference to last Measurement 8

First & Final-Bill

SBR No-#3/16-17

30-6-16

BR-260/30-6-16

83620

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10

Serial No.....

Name of work... Removal of Debris and Berm cutting in KNV 1st stage, 2nd stage. Pillegowdanapalya Layout, Ramachandrapura From... Old ... Village, ... To... Moon Garden, Hanuman Layout in ward No-16. (Doddaboommasandra)

Name of Contractor of nature of Agency... Sri. M.D. Srinivas.

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Work Code No:-	010-16-000024.					
	Head of Account:-	P1771.					
	Administrative Approval No:-	AS/EE(BTP)/201/15-16. Dt 14-12-2015					
	Technical Sanction No:-	TS/EE(BTP)/210/15-16. Dt 14-12-2015.					
	Work order No:-	BBMP/EE/BTP/WO/263/2015-16. Dt 26-02-2016.					
	Address of Agency:-	#13, 2nd Main road, M. Venkategowda layout Hebbala-Kempapura.					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 0.5mt excavated Surface leveled and sides neatly dressed the disposed earth to be leveled neatly after breaking of clods etc						
		2	30.00	$0.45\left(\frac{0.35+0.45}{2}\right)$		= 10.80Cum	
		2	30.00	$0.45\left(\frac{0.45+0.40}{2}\right)$		= 11.48Cum	
		2	21.50	$0.45\left(\frac{0.40+0.35}{2}\right)$		= 7.26Cum	
		2	30.00	$0.45\left(\frac{0.35+0.40}{2}\right)$		= 10.63Cum	
		2	30.00	$0.45\left(\frac{0.40+0.40}{2}\right)$		= 10.80 Cum	
		2	21.50	$0.45\left(\frac{0.4+0.30}{2}\right)$		= 6.77Cum	
		2	30.00	$0.45\left(\frac{0.30+0.35}{2}\right)$		= 8.78Cum	
		2	30.00	$0.45\left(\frac{0.35+0.45}{2}\right)$		= 10.80Cum	
		2	20.00	$0.45\left(\frac{0.45+0.40}{2}\right)$		= 7.65Cum	
		2	30.00	$0.45\left(\frac{0.40+0.30}{2}\right)$		= 9.45Cum	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.

Date of commencement of work.....

Date	Full description, etc, of work
1	2

h	Contents 7	Reference to last Measurement 8
	ary soil involving an average lift upto 0.5mt excavated ed disposed earth to be	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45	$\frac{(0.40+0.45)}{2}$	= 11.48 Cum	
		2	32.50	0.45	$\frac{(0.45+0.35)}{2}$	= 11.70 Cum	
		2	30.00	0.45	$\frac{(0.35+0.30)}{2}$	= 8.78 Cum	
		2	30.00	0.45	$\frac{(0.30+0.40)}{2}$	= 9.45 Cum	
		2	32.50	0.45	$\frac{(0.40+0.35)}{2}$	= 10.87 Cum	
		2	30.00	0.45	$\frac{(0.40+0.30)}{2}$	= 9.45 Cum	
		2	30.00	0.45	$\frac{(0.30+0.35)}{2}$	= 8.78 Cum	
		2	18.20	0.45	$\frac{(0.35+0.40)}{2}$	= 6.14 Cum	
		2	30.00	0.45	$\frac{(0.40+0.45)}{2}$	= 11.48 Cum	
		2	30.00	0.45	$\frac{(0.45+0.40)}{2}$	= 11.48 Cum	
		2	18.20	0.45	$\frac{(0.40+0.35)}{2}$	= 6.14 Cum	
		2	30.00	0.45	$\frac{(0.35+0.45)}{2}$	= 10.80 Cum	
		2	30.00	0.45	$\frac{(0.45+0.40)}{2}$	= 11.48 Cum	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency...

Date of commencement of work.....

Date	Full description, etc, of work	N
1	2	

C & F

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Depth 6	Contents 7	Reference to last Measurement 8
$\frac{(0+0.45)}{2}$	= 11.48 Cum	
$\frac{45+0.35)}{2}$	= 11.70 Cum	
$\frac{+0.30)}{2}$	= 8.78 Cum	
$\frac{+0.40)}{2}$	= 9.45 Cum	
$\frac{0+0.35)}{2}$	= 10.87 Cum	
$\frac{0+0.30)}{2}$	= 9.45 Cum	
$\frac{0+0.35)}{2}$	= 8.78 Cum	
$\frac{5+0.40)}{2}$	= 6.14 Cum	
$\frac{+0.45)}{2}$	= 11.48 Cum	
$\frac{5+0.40)}{2}$	= 11.48 Cum	
$\frac{0+0.35)}{2}$	= 6.14 Cum	
$\frac{5+0.45)}{2}$	= 10.80 Cum	
$\frac{5+0.40)}{2}$	= 11.48 Cum	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 83422

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	C & E	1	18.80	0.45	$\frac{(0.40+0.50)}{2}$	= 5.92 Cum	
		2	30.00	0.45	$\frac{(0.30+0.45)}{2}$	= 10.13 Cum	
		2	30.00	0.45	$\frac{(0.45+0.40)}{2}$	= 11.48 Cum	
		2	18.80	0.45	$\frac{(0.40+0.30)}{2}$	= 5.92 Cum	
		2	30.00	0.45	$\frac{(0.30+0.35)}{2}$	= 8.78 Cum	
		2	30.00	0.45	$\frac{(0.35+0.45)}{2}$	= 10.80 Cum	
		2	30.00	0.45	$\frac{(0.45+0.40)}{2}$	= 11.48 Cum	
		2	22.80	0.45	$\frac{(0.40+0.35)}{2}$	= 7.70 Cum	
		2	30.00	0.45	$\frac{(0.35+0.45)}{2}$	= 10.80 Cum	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45	$\frac{(0.45+0.40)}{2}$	= 16.48 Cum	
		2	30.00	0.45	$\frac{(0.40+0.45)}{2}$	= 16.48 Cum	
		2	27.80	0.45	$\frac{(0.45+0.35)}{2}$	= 8.21 Cum	
		2	30.00	0.60	$\frac{(0.35+0.45)}{2}$	= 14.40 Cum	
		2	30.00	0.60	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	
		2	30.00	0.60	$\frac{(0.40+0.35)}{2}$	= 13.50 Cum	
		2	25.50	0.60	$\frac{(0.35+0.45)}{2}$	= 12.24 Cum	
		2	30.00	0.60	$\frac{(0.45+0.30)}{2}$	= 13.50 Cum	
		2	30.00	0.60	$\frac{(0.30+0.35)}{2}$	= 11.70 Cum	
		2	30.00	0.60	$\frac{(0.35+0.45)}{2}$	= 14.40 Cum	
		2	30.00	0.60	$\frac{(0.45+0.45)}{2}$	= 16.20 Cum	
		2	25.50	0.60	$\frac{(0.45+0.30)}{2}$	= 11.48 Cum	

M.A

M

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Numbe
1	2	3
		2
		2
		2
		2
		2
		2
		2
		2
		2

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

	Contents	Reference to last Measurement
th	7	8
40)	= 16.48 Cum	
45)	= 16.48 Cum	
2 0.35)	= 8.21 Cum	
2 0.45)	= 14.40 Cum	
2 0.40)	= 15.30 Cum	
2 0.35)	= 13.50 Cum	
2 0.45)	= 12.24 Cum	
2 0.30)	= 13.50 Cum	
2 0.35)	= 11.70 Cum	
2 0.45)	= 14.40 Cum	
2 0.45)	= 16.20 Cum	
2 +0.30)	= 11.48 Cum	

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 83423

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45 (0.40+0.35)/2		= 10.13 Cum	
		2	30.00	0.45 (0.35+0.45)/2		= 10.80 Cum	
		2	30.00	0.45 (0.45+0.40)/2		= 11.48 Cum	
		2	22.50	0.45 (0.40+0.35)/2		= 7.59 Cum	
		2	30.00	0.45 (0.35+0.45)/2		= 10.80 Cum	
		2	30.00	0.45 (0.45+0.40)/2		= 11.48 Cum	
		2	30.00	0.45 (0.40+0.30)/2		= 9.45 Cum	
		2	22.50	0.45 (0.30+0.45)/2		= 7.59 Cum	
		2	30.00	0.45 (0.40+0.35)/2		= 9.45 Cum	

Assistant Executive Engineer
Vidyaranyepura Sub Division
BBMP, Bangalore - 97

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45	(0.30+0.35)/2	= 8.78 Cum	
		2	30.00	0.45	(0.35+0.45)/2	= 10.80 Cum	
		2	18.80	0.45	(0.45+0.40)/2	= 7.19 Cum	
		2	30.00	0.45	(0.40+0.30)/2	= 9.45 Cum	
		2	30.00	0.45	(0.30+0.45)/2	= 10.13 Cum	
		2	30.00	0.45	(0.45+0.40)/2	= 11.48 Cum	
		2	18.80	0.45	(0.40+0.40)/2	= 6.77 Cum	
		2	30.00	0.60	(0.35+0.35)/2	= 12.60 Cum	
		2	30.00	0.60	(0.35+0.45)/2	= 14.40 Cum	
		2	30.00	0.60	(0.45+0.40)/2	= 15.30 Cum	
		2	25.80	0.60	(0.40+0.35)/2	= 11.48 Cum	
		2	30.00	0.60	(0.35+0.35)/2	= 12.60 Cum	

M

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	

BOOK

s		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
45	(0.30+0.35)/2	=8.78 Cum	
45	(0.35+0.45)/2	= 10.80 Cum	
45	(0.45+0.40)/2	= 7.19 Cum	
45	(0.40+0.30)/2	= 9.45 Cum	
45	(0.30+0.45)/2	= 10.13 Cum	
45	(0.45+0.40)/2	= 11.48 Cum	
45	(0.40+0.40)/2	= 6.77 Cum	
60	(0.35+0.35)/2	= 12.60 Cum	
60	(0.35+0.45)/2	= 14.40 Cum	
60	(0.45+0.40)/2	= 15.30 Cum	
60	(0.40+0.35)/2	= 11.48 Cum	
60	(0.35+0.35)/2	= 12.60 Cum	

M.A.R. 57 (Rule 116)

83424

Measurement Book

No. A/10

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.60	(0.35+0.45)/2	= 14.40 Cum	
		2	30.00	0.60	(0.45+0.40)/2	= 15.30 Cum	
		2	25.50	0.60	(0.40+0.35)/2	= 11.48 Cum	
		2	30.00	0.45	(0.35+0.45)/2	= 10.80 Cum	
		2	30.00	0.45	(0.45+0.30)/2	= 10.13 Cum	
		2	30.00	0.45	(0.30+0.40)/2	= 9.45 Cum	
		2	30.00	0.45	(0.40+0.45)/2	= 11.48 Cum	
		2	30.00	0.45	(0.45+0.35)/2	= 10.80 Cum	
		2	28.30	0.45	(0.35+0.25)/2	= 7.64 Cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		2	30.00	0.45	$\frac{(0.45+0.35)}{2}$	= 10.80 Cum	
		2	30.00	0.45	$\frac{(0.35+0.30)}{2}$	= 8.78 Cum	
		2	30.00	0.45	$\frac{(0.30+0.45)}{2}$	= 10.13 Cum	
		2	28.80	0.60	$\frac{(0.30+0.35)}{2}$	= 11.23 Cum	
		2	30.00	0.60	$\frac{(0.40+0.45)}{2}$	= 15.30 Cum	
		2	30.00	0.60	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	
		2	30.00	0.60	$\frac{(0.40+0.35)}{2}$	= 13.50 Cum	
		2	25.20	0.60	$\frac{(0.35+0.45)}{2}$	= 12.10 Cum	
		2	30.00	0.60	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	
		2	30.00	0.60	$\frac{(0.40+0.35)}{2}$	= 13.50 Cum	
		2	30.00	0.60	$\frac{(0.40+0.30)}{2}$	= 12.60 Cum	
		2	30.00	0.60	$\frac{(0.30+0.35)}{2}$	= 11.70 Cum	
		2	18.00	0.60	$\frac{(0.35+0.45)}{2}$	= 8.88 Cum	
		2	30.00	0.60	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	C & P Ce Assistant Executive Eng Vidyaranyapura Sub. Di BBMP.
	2) Earth work in surface lowering the ground a road drains and excavated stuff to a

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
	$\frac{(0.45+0.35)}{2}$	= 10.80 Cum	
	$\frac{(0.35+0.30)}{2}$	= 8.78 Cum	
	$\frac{(0.30+0.45)}{2}$	= 10.13 Cum	
	$\frac{(0.30+0.35)}{2}$	= 11.25 Cum	
	$\frac{(0.40+0.45)}{2}$	= 15.30 Cum	
	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	
	$\frac{(0.40+0.35)}{2}$	= 13.50 Cum	
	$\frac{(0.35+0.45)}{2}$	= 12.10 Cum	
	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	
	$\frac{(0.40+0.35)}{2}$	= 13.50 Cum	
	$\frac{(0.40+0.30)}{2}$	= 12.60 Cum	
	$\frac{(0.30+0.35)}{2}$	= 11.70 Cum	
	$\frac{(0.35+0.45)}{2}$	= 8.88 Cum	
	$\frac{(0.45+0.40)}{2}$	= 15.30 Cum	

M.A.R. 57 (Rule 116)

Measurement Book .. No. A/10 83426

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	C+PC Assistant Executive Engineer Vidyaranyapura Sub Division BBMP	2	30.00	0.60	$\frac{(0.40+0.30)}{2}$	= 12.60 Cum	
		2	30.00	0.60	$\frac{(0.30+0.45)}{2}$	= 13.50 Cum	
					Total =	1068.80 Cum	
					Qty limited to tender =	1011.15 Cum	
						Rs 81549.00	
	2) Earth work in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of building, culvert road drains and trenches of pipeline and cable) and removing the excavated stuff to a distance @ Rs 80.65						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		4	5.00	1.50	0.35 =	10.50 cum	
		6	4.50	1.80	0.45 =	23.09 cum	
		5	4.50	1.50	0.45 =	15.19 cum	
		3	4.50	1.50	0.45 =	9.11 cum	
		2	5.00	1.50	0.35 =	5.25 cum	
		3	5.00	1.20	0.45 =	8.10 cum	
		5	6.00	1.00	0.35 =	10.50 cum	
		3	4.50	1.80	0.45 =	10.94 cum	
		4	3.50	1.80	0.35 =	8.82 cum	
		3	5.50	1.20	0.35 =	6.93 cum	
		5	5.00	1.50	0.40 =	15.00 cum	
		6	3.50	1.80	0.45 =	17.01 cum	
		5	5.80	1.85	0.45 =	24.11 cum	
		6	5.50	1.50	0.45 =	22.28 cum	
		3	5.00	1.80	0.40 =	10.80 cum	
		5	6.00	1.95	0.45 =	26.33 cum	
		6	5.00	1.80	0.40 =	21.60 cum	
		6	5.60	1.50	0.45 =	22.68 cum	
		5	4.50	1.80	0.35 =	14.18 cum	

M.

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3
		5 6 7 4 8 7 5 6 4 5 6 5

OOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
0	0.35 =	10.50cum	
0	0.45 =	23.09cum	
0	0.45 =	15.19cum	
0	0.45 =	9.11cum	
0	0.35 =	5.25cum	
0	0.45 =	8.10cum	
0	0.35 =	10.50cum	
0	0.45 =	10.98cum	
0	0.35 =	8.82cum	
0	0.35 =	6.93cum	
0	0.40 =	15.00cum	
0	0.45 =	17.01cum	
5	0.45 =	24.46cum	
0	0.45 =	22.28cum	
0	0.40 =	10.80cum	
5	0.45 =	26.33cum	
0	0.40 =	21.60cum	
8	0.45 =	22.68cum	
0	0.35 =	14.18cum	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 83426

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		5	5.20	1.80	0.35 =	16.38cum	
		6	6.80	1.50	0.45 =	27.54cum	
		7	3.50	1.50	0.35 =	12.86cum	
		4	5.00	1.60	0.45 =	14.40cum	
		8	5.00	1.50	0.45 =	27.00cum	
		7	5.00	1.90	0.45 =	29.93cum	
		5	5.00	1.50	0.40 =	15.00cum	
		5	5.50	1.70	0.45 =	21.04cum	
		6	6.00	1.50	0.40 =	21.60cum	
		5	6.50	1.50	0.35 =	17.06cum	
		4	6.00	1.80	0.45 =	19.44cum	
		5	7.00	1.75	0.40 =	24.50cum	
		6	4.50	1.45	0.45 =	17.62cum	
		5	4.50	1.90	0.35 =	14.96cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CAFE Manwal	5	6.50	1.90	0.35 =	21.61 Cum	
		4	5.50	1.95	0.40 =	17.16 Cum	
		5	5.50	1.75	0.45 =	21.66 Cum	
		6	5.50	1.20	0.45 =	17.82 Cum	
					Total =	1196.05 Cum	
					Qty limited to Tender =	1155.60 Cum	
					@ Rs 155.04	Rs 179164.00	
	3) Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means including loading and unloading etc complete as per Specifications and directions of Engineer.						
	Qty vide Item No-1 + 2				Total =	2166.75 Cum	
					@ Rs 103.15	Rs 223500.00	

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Num
1	2	3
	Certificate;- certified that the a materials issued fro Zodha AE 25/6/2016	

Depth 6	Contents 7	Reference to last Measurement 8
0.35 =	21.61 Cum	
0.40 =	17.16 Cum	
0.45 =	21.66 Cum	
0.45 =	17.82 Cum	
Total =	1196.05 Cum	
=	1155.60 Cum	
	Rs 179164.00	
able at carriage rates by		
nd unloading etc complete as per		
otal =	2466.75 Cum	
	Rs 223500.00	

M.A.R. 57 (Rule 116)

Measurement Book No. A/10 83428

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
					Total Rs		1184213.00
						Zadhav AE 25/6/2016	
	Certificate;- certified that the above work done satisfactory and no materials issued from departmentally Zadhav AE 25/6/2016						

Assistant Executive Engineer
Sub Division
BRAHMAPURI - 97

BD-260
30/6/16

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Audited & Admitted to Rs ....
4842.0-00
45467-00 by Cheque
and Rs 3004.3-00 by agreement
Finish payment by ...
Accts Supdt
Bystander's Sign & Date ... Dated
BBMP.

4/8/16

IT - 4843-00
VAT - 19369-00
LWF - 4843-00
CBF - 485-00
Fine - 503-00
Total - 30043-00

First & Final Bill

SBRAO-7H/16-17

30-6-16

Serial No.....

Name of work.....Engaging JCB and other debris in...

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Work Code No:-
	Head of Account:-
	Administrative Approval
	Technical Sanction No
	Work order No:- BBM
	Address of Agency:-